Recent Advancements and Applications of Computational Electromagnetics

Guest Editors:

Prof. Dr. Mingyao Xia
School of Electronics, Peking University, Beijing 100871, China

Prof. Dr. Dazhi Ding
School of Electronic & Optical Engineering, Nanjing University of Science & Technology, Nanjing 210094, China

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Message from the Guest Editors

Dear Colleagues,

***Computational Electromagnetics* (CEM)** plays a critical role in every area that needs to solve the Maxwell equations by numerical approaches. Classical CEM methods include the method of moments (MOM), finite element method (FEM), finite difference time domain (FDTD), and so on. Traditional applications cover evaluations of radar target properties and electromagnetic compatibility, analyses of radiofrequency antennas and components, predictions of wave propagation and scattering behaviors, extractions of microwave circuit and network parameters, inversions or imaging of electromagnetic structures, and so forth. Simulations of electromagnetic interactions with thermodynamic, hydrodynamic, and quantum fields have also drawn much attention in the last decade. Emerging CEM methods and applications involve machine learning and next-generation wireless communications, etc. Undeniably, CEM is a vivifying subject to explore academic frontiers and solve engineering problems that are related to electromagnetic phenomena by using a numerical methodology and high-performance computers. We look forward to the latest research on CEM in terms of algorithms and applications.

Special Issue

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

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